

**To:** Garrison, Geoffrey[Garrison.Geoffrey@epa.gov]  
**From:** Raj  
**Sent:** Thur 4/16/2015 9:10:46 AM  
**Subject:** Methyl bromide response . For your review . Thanks, Raj

Please review and edit if necessary .

Thanks .

Raj

## **Methyl Bromide Response- Clearance sampling**

### **April 13th**

Arrived in St John at 3:30 pm, to start venting upper and lower levels of Unit J. However, had to wait until 5:00 pm for the management company to open both levels of Unit J. When the managers did not show up, took the ferry back to St. Thomas. Checked in at the hotel around 8:00 pm.

### **April 14th**

Arrived in St. John around 8:00 am. After meeting with the facility managers, started air ventilation at 10:30 in both lower and upper levels of Unit J. Temperature in the upper level was 86° F and 83°F in the lower unit. The air conditioner in both units set at 60°F. All the ceiling fans were turn on in upper and lower units. Exhaust fan in all the bathroom and in the kitchen were turned on.

in order to ventilate the unit , four high velocity fan were acquired . One fan was located in Mgt. office and one low velocity fan in the lower unit in the kitchen

Purchased three high-velocity fans from local hardware store around 2:30 pm. By 3:00 pm, one fan was placed on one side of the upper unit in bedroom to draw air in the unit and second fan to let air out in the master bed room in upper unit. The same for the lower unit and one additional fan was placed in lower unit to draw air out.

The thermostat in each unit indicated that the temperature in the upper unit was 73 °F and humidity. 53 percent; in the lower unit, the temperature was set at 75°F and

humidity, 53 percent.

All the household chemicals had been removed from the upper and lower units placed in bins outside each unit to reduce the VOC emissions in the units from household chemicals used by cleaners.

At 3:45 pm, a Summa grab sample was collected in the lower unit to determine the methyl bromide concentration in air under the above-mentioned conditions. Again, at 4:00 pm, Summa grab sample was collected in the upper unit.

Temperature and humidity readings in the upper unit were 75°F and 52 percent, respectively; in the lower unit, they were, respectively, 73°F and 52 percent.

Went to Home Depot to purchase dehumidifiers to lower humidity in both units.

### **April 15th**

Picked up the Fedex delivery at the airport, and shipped the Summa canister samples to the Edison Lab for VOC analysis. In the morning, contractor picked up the dehumidifiers from Home Depot.

Between 12:15PM -1:20 PM one humidifier was placed in the upper unit and one in the lower unit. The temperature of the dehumidifiers was set at lowest possible setting with max speed.

Between 1:30 and 2:30 PM, wipe sampling was performed in the upper and lower units of building J. Six wipe samples were collected in the upper and lower units. The samples will be placed in a cooler with ice, and shipped.

The team collected six wipe samples in upper and lower unit: from the master bedroom, child bedroom, and kitchen. Sampling locations: one wall and one floor in the same room where Summa samples will be collected on 4/17.

At 4:00PM the team entered the upper and lower units to check out the fans and dehumidifiers to make sure set up is working.

## **Tentative Plans for**

### **April 16th**

Place all personal clothing items in bags, monitor total VOC, discuss the results with ROC, and make further decision on clothing issues.

Around 11:00AM, all windows will be closed and high speed fan will be removed from the upper and lower units.

Around 5:30 PM dehumidifiers, and air conditioners will be turn off.. Also, turn off bathroom and kitchen exhausts to get ready for the sampling event on Friday morning, April 17<sup>th</sup>.

### **April 17<sup>th</sup>**

Around 8:00 AM Summa samples three in upper and three in lower unit will be placed to Collect 24-hour Summa air samples for clearance for reoccupy the units . An ambient air samples will be collected outside if building J.

Also three summa grab will be collected for ambient air in consultation with Region

II OSC in St John or St . Thomas .

### **April 18th**

In the morning, collect 24 hour Summa samples to be shipped to Edison, New Jersey. The results of the analysis will be reported to Region II mgt. the decision for reoccupying the units will be recommended by ASTDR and DPNR . The team still waiting for the indoor air concentration from ATDSR for reoccupying the units.

Will make a decision on clothing issues, based on the results, and discuss with ROC.

### **April 19th**

The team will demobilize, and wait for the Summa canister results for methyl bromide and wipe for bromide results further action by the EPA , ASTDR , and DPNR ( the preliminary results of the analysis will be available to EPA's team by the end of next week.